ANSWER 10 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN (Contil-Piperidinepentanenitrile, 4-hydroxy-4-(2-naphthalenyl)- α,α -diphenyl-, monohydrochloride (9CI) (CA INDEX NAME) (Continued)

HC1

THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE.CNT 32

L4 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN GI

Quaternary quinuclidines I [R = aryl, alkyl, heteroaryl; R1 = H, alkyl;

a aryl such as Ph. naphthyl, thienyl, indolyl, etc.; W = bond, CH2, CH2CH2; X = linking alkylene; Y =aryl, benzyl, heteroaryl, cycloalkyl; Z-pharmaceutically acceptable anion, such as MeSO3-, Cl-, etc.] were prepared for use as tachykinin antagonists. Thus, II was prepared via reaction of 4-phenylquinuclidine with 1-methanesulfonylovy-3-(3,4-dichlorophenyl)-4-[2-(3,5-dimethylbenzoyl)]midazol-1-yll-butane in MeCN under reflux for 4 h. Some of the prepared compds. were tested for human NKI and NK2 receptor binding affinity. NK1 and NK2 receptor binding affinity. 1999:9851 CAPLUS 130:52617

DN 130:52617

Preparation of quaternary ammonium compounds as tachykinin antagonists

Nonaghan, Sandra Marina; Alker, David; Burns, Christopher John

PA Pfizer Limited, UK; Pfizer Inc.

PCODEN: PIXXD2

PA Tent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

972 Al 1981223 WO 1998-EP3500 19980605 AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LU, MD, MG, MK, MM, MX, NK, NO, NZ, PL, WO 9857972

L4 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

P7, R0, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UC, US, UZ, VN, YU, AM, AZ, EY, KG, KZ, MD, RU, TJ, TM

RN: GH, GM, KE, LS, MN, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CP, CG, C1, CM, GA, NM, MM, RM, SD, ST, UG, ZW, AT, BE, CH, CY, DE, DK, ES, CM, GA, AD, MI, MR, ME, SK, TD, TG

TW 479055 BE 20020311 TW 1998-821573 19980605

AU 726027 B2 20001026

AU 726027 B2 20001026

EP 994876 A1 20000426 EP 1998-932148 19980605

EP 994876 A1 20000421 TR 1999-9903135 19980605

EP 994876 A1 20000426 EP 1998-932148 19980605

ER: AT, BE, CD, BE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO

NZ 501286 A 20000728 NZ 1998-501286 19980605

BR 9810619 A 20000912 BR 1998-10619 19980605

JP 3280993 B2 20020513

SK 281346 B6 200130603 SK 1999-1744 19980605

AT 275564 E 20000915 AT 1998-322148 19980605

AT 275564 E 20000915 AT 1998-322148 19980605

AP 947 A 20010308 AP 1998-1262 19980611

W: BN, GM, KE, MN, UG, ZM, ZW

ZA 9805239 A 19991217 ZA 1998-5239 19980611

NG 9905782 A 20000216 NO 1999-5782 19991123

BG 63441 B1 20011031

NO 9905782 A 20000216 NO 1999-5782 19991123

NG 503441 B1 20011031 NO 1999-782 19991123

NG 503669 B1 20020430 NX 1999-103919 19991123

NG 5037678 B1 20010037 US 2000-380370 20000424

US 6207678 B1 20020430 NX 1999-10996 1999127

US 6207678 B1 20020430 NX 1999-10999 1999127

US 620

CM 1

CRN 217431-95-3 CMF C38 H38 C12 N3 O2

ANSWER 11 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CM 2

CRN 16053-58-0 CMF С #3 ОЗ S

-0-8-CH3

217431-97-5P 217431-98-6P 217431-99-7P 217432-01-4P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of quoternary ammonium compds. as tachykinin antagonists) 217431-97-5 CAPLUS 4-Piperidineacetic acid, α-cyano-4-(2-naphthalenyl)-1-(phenylmethyl), ethyl ester (9CI) (CA INDEX NAME)

ANSWER 11 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) 217431-98-6 CAPLUS 4-Piperidineacetic acid, 4-(2-naphthalenyl)-1-(phenylmethyl)-, ethyl (9CI) (CA INDEX NAME)

CH2-Ph

217431-99-7 CAPLUS 4-Piperidineethanol, 4-(2-naphthalenyl)-1-(phenylmethyl)- (9CI) (CA NAME)

но-сн2-сн2 CH2-Ph

217432-01-4 CAPLUS 1-Azoniabicyclo $\{2.2.2\}$ octane, 4- $\{2-naphthaleny1\}$ -1- $\{phenylmethyl\}$ -, salt with 4-methylbenzenesulfonic acid $\{1:1\}$ (9CI) (CA INDEX NAME)

CM 1 CRN 217432-00-3 CMF C24 H26 N

CH2-Ph

CM 2

ANSWER 12 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
The CC chemokines macrophage inflammatory protein-1a (MIP-1a)
and RANTES (regulated on activation normal T cell expressed) have been
implicated in rheumatoid arthritis and multiple sclerosis. Since their
effects are mediated through the CCR1 chemokine receptor, we set up a
small mol. CCR1 antagonist program to search for inhibitors. Through

capacity screening we discovered a number of 4-hydroxypiperidine compds.

CCR1 antagonist activity and report their synthesis and in vitro pharmacol. here. Scatchard anal. of the competition binding data revealed

that the compds. had Ki values ranging from 40 to 4000 nM. The

macol.
profile of the most potent member of this series, (2,2-diphenyl-5-(4-chlorophenyl)piperidinlyl)valeronitrite (I), was further evaluated.
Compound I showed concentration-dependent inhibition of MIP-la-induced extracellular acidification and Ca2+ mobilization demonstrating functional

antagonism. When given alone, the compound did not elicit any responses, indicating the absence of intrinsic agonist activity. Compound I inhibited

bited MIP-la- and RANTES-induced migration in peripheral blood mononuclear cells in a dose-responsive manner. Selectivity testing against a panel

seven transmembrane domain receptors indicated that compound I is inactive

tive on a number of receptors at concns. up to 10 μM . This is the first description of CCR1 receptor antagonists that may be useful in the treatment of chronic inflammatory diseases involving MIP-1 α , RANTES, and CCR1.

1998:400595 CAPLUS

129:144656

DN TI

129:144656
Identification and characterization of small molecule functional antagonists of the CCR1 chemokine receptor
Hesselgesser, Joseph; Ng, Howard P.; Liang, Meina; Zheng, Wei; May,

n;
Bauman, John G.; Monahan, Sean; Islam, Imadul; Wei, Guo Ping; Ghannam, Ameen; Taub, Dennis D.; Rosser, Mary; Snider, R. Michael; Morrissey, Michael M.; Perez, H. Daniel; Horuk, Richard Department of Immunology, Berlex BioSciences, Richmond, CA, 94806, USA Journal of Biological Chemietry (1998), 273(25), 15687-15692 CODEN: JBCMA3; ISSN: 0021-9258
American Society for Biochemistry and Molecular Biology

CS SO

Journal

English 210815-63-7P

 $\ensuremath{\mathsf{RL}}\colon \ensuremath{\mathsf{RAC}}$ (Biological activity or effector, except adverse); BSU (Biological

logical
study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL
(Biological study); PRP (Preparation)
(preparation and characterization of 4-hydroxypiperidine compds. as
functional antagonists of CCR1 chemokine receptor)
210815-63-7 CAPLUS

1-Piperidinepentanenitrile, 4-hydroxy-4-(2-naphthalenyl)- α , α -diphenyl- (9CI) (CA INDEX NAME)

ANSWER 11 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) CRN 16722-51-3 CMF C7 H7 O3 S

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 12 OF 22 CAPLUS' COPYRIGHT 2004 ACS on STN (Continued)

THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE.CNT 29

ANSWER 13 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

A series of title compds. I [X = H, OH; R = H, OH, cyano, alkyl, acyl, alkenyl, alkynyl, aryl, alkoxy, aryloxy, arylalkenyloxy, alkyl-thio/sulfinyl/sulfonyl, NRIR2, CONRIR2; n = 0, 1, 2; R1, R2 = H, alkyl, Ph; or NRIR2 = pyrrolidino, piperidino, or 4-R3-piperazino; R3

H. alkyl. Ph. or NRIR2 = pyrrolidino, piperidino, or 4-R3-piperazino; R3

H. alkyl. Ph. CH2Ph, or alkoxycarbonyl) and their pharmaceutically acceptable salts are disclosed. The compds. are effective pharmaceuticals for the treatment of conditions related to or affected by the reuptake of serotonin, and by the serotonin lh receptor, yet they lack mutagenic potential as measured by assays of chromosomal aberration (no data). The compds. are particularly useful for alleviating the symptoms of nicotine and tobacco withdrawal, and for the treatment of depression and other conditions for which serotonin reuptake inhibitors are used. Some I are said to show serotonin reuptake inhibitory activity in the low nM range. Nineteen synthetic examples and 23 precursor prepns. are given. For instance, N-alkylation of 4-hydroxy-4-inaphth-2-yl)piperidine with (S)-(+)-4-foxinaylmethoxy)-1H-indole (prepns. given) in refluxing MeOH gave 70% title compound II, which was also isolated as the oxalate.

N 1998:12106 CAPLUS
DN 128:88790

TI Preparation of 1-(4-indolyloxy)-3-(4-hydroxy-4-naphthylpiperidin-1-yl)propane derivatives having effects on serotonin-related systems
N Koch, Daniel J.; Rocco, Vincent P.
PA Eli Lilly and Co., USA
DPCT Int. Appl., 55 pp.
COOEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

ANSWER 13 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

188862-05-7 CAPLUS 4-Piperidinol, 4-(2-naphthalenyl)-1-(phenylmethyl)- (9CI) (CA INDEX

200875-18-9 CAPLUS 4-Piperidinol, 4-(6-methoxy-2-naphthalenyl)-1-(phenylmethyl)- (9CI) (CA INDEX NAME)

200875-19-0 CAPLUS

4-Piperidinol, 4-(7-methoxy-2-naphthalenyl)-1-(phenylmethyl)- (9CI) (CA INDEX NAME)

CAPLUS RN CN

4-Piperidinol, 4-(6-ethoxy-2-naphthalenyl)-1-(phenylmethyl)- (9CI) (CA INDEX NAME)

WO 9748698 A1 19971224 WO 1997-US10603 19970619
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, CH,
HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MG,
MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, SL, TJ,
TM, TR, TT, UA, UG, US, UZ, VN, VU, ZM, AM, AZ, BY, KG, KZ, MD,
RU, TJ, TM
RM: GH, KE, LS, MW, SD, SZ, UG, ZW, BF, BJ, CF, CG, CI, CM, GA, GN,
ML, MR, NE, SN, TD, TG
US 5912256 A 19970615 US 1997-861445
EP 814084 A1 19971229 EP 1997-3040000
R: AT, BE, CM R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI, RO AT 203990 20010815 AT 1997-304280 ES 1997-304280 19970618 19970618 ES 2160894 20011116 CA 1997-2257962 AU 1997-34017 JP 1998-503318 CA 2257962 19971224 19970619 AU 9734017 19980107 19970619 JP 2000513358 20001010 1008525 20020315 HK 1998-10877 GR 3037072 US 1996-20131P WO 1997-US10603 20020131 GR 2001-401944 20011030 PRAI 19960620 US 1996-20131
W 1997-1813603
W 1997-1913603
W 1997-19970619 (intermediate; preparation of (intolyloxy) (hydroxynaphthylpiperidinyl)propan e deriva, an aserotoninergic agents and reuptake inhibitors) RN 130305-57-6 CAPLUS 4-Piperidinol, 4-(1-naphthalenyl)-1-(phenylmethyl)- (9CI) (CA INDEX

ANSWER 13 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

(Continued)

CAPLUS RN CN

-Piperidinol, 1-(phenylmethyl)-4-(6-propoxy-2-naphthalenyl)- (9CI) (CA

200875-22-5 CAPLUS

4-Piperidinol, 4-[6-(1-methylethoxy)-2-naphthalenyl]-1-(phenylmethyl)-(9CI) (CA INDEX NAME)

200875-23-6 CAPLUS 4-PiperidinOl, 4-[6-(hexyloxy)-2-naphthalenyl]-1-(phenylmethyl)- (9CI) (CA INDEX NAME)

CH2-Ph (CH₂)₅

200875-24-7 CAPLUS 4-Piperidinol, '4-[6-(2-phenylethoxy)-2-naphthalenyl]-1-(phenylmethyl)-(SCI) (CA INDEX NAME)

ANSWER 13 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

200875-26-9 CAPLUS 4-Piperidinol, 4-(6-hydroxy-2-naphthalenyl)-1-(phenylmethyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2004 ACS ON STN

NZ 315677 A 20000228 NZ 1996-315677

RU 2167865 C2 20010527 RU 1998-106188

AT 242213 B 20030615 AT 1996-927715

IL 123293 A1 20030624 IL 1998-123293

CZ 293327 B 6 20030917 CZ 1998-684

PT 861875 T 20031031 PT 1996-927715

ES 2201192 T3 20040316 ES 1996-927715

ES 2201192 T3 20040316 ES 1996-927715

ES 2201192 T3 20040316 ES 1996-927715

EN 20000954 A 19970307 ZA 1996-7424

TW 474932 B 2002001 TW 1996-85110684

US 6051712 A 20000418 US 1999-255185

US 6150526 A 20001121 US 1999-255185

US 6150526 A 19950907

CH 1996-1876 A 19960829

US 1999-255185 A1 19990222

US 1999-255185 A1 19990222

US 1999-255185 A1 19990222

US 1998-711339 A3 19960906

US 1999-255185, A1 19990222

US 1998-711339 A3 19960906

US 1999-255185, A1 19990222

US 198861-08-7P 188861-21-4P 188861-25-8P 188862-05-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (R (Continued) 19960829 19960829 19960829 19960829 19960829 19960829 19960829 19960902 19960902 19980305

Relative stereochemistry

188861-21-4 CAPLUS 4-Piperidinol, 4-(1,2-dihydro-5-acenaphthylenyl)-1-(phenylmethyl)- (9CI) (CA INDEX NAME)

ANSWER 14 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

1

New piperidine and azabicyclooctane derivs. (> 1000 compds.) are renin inhibitors for treatment of high blood pressure, heart and kidney insufficiency. Thus, the piperidine derivative I was prepared from 1-benzyl-3-propyl-4-piperidinone by reaction with 4-PGGHBF. followed by 1-benzyloxy-3-chloromethylnaphthalene and deblocking. I had a renin-inhibiting ICSO of 0.317 µM. 1997:307688 CAPLUS 126:277402 New 4-azyl-3-aralkoxypiperidines and -azabicylooctanes for treating heart and kidney insufficiency Binggeli, Alfred; Breu, Volker; Bur, Daniel; Fischli, Walter; Gueller, Rolf; Hirth, Georges; Maerki, Hans-Peter; Mueller, Marcel, Oefner, Christian; Stadler, Heinz; Vieira, Eric; Wilhelm, Maurice; Wostl, gang

Wolfgang
PA F. Hoffmann-La Roche Ag, Switz.
SO PCT Int. Appl., 492 pp.
CODEN: PIXXD2
DT Patent

LA German FAN.CNT 1

	PATENT NO.						D DATE	;	AP	PLICA	DATE				
PΙ	WO 9709311				A1 19970313			WO	1996	199	19960829				
		W:	AU,	BR,	CA,	CN,	CZ, HU,	IL.	JP. K	R. MX	. NO.	NZ.	PL.	RU. S	G. TR
		RW:					DK, ES,								
SE								-	, -			,	,	,	,,
	CA	2230	931			AA	1997	0313	CA	1996	-2230	931		199	960829
	ΑU	9667	432			A1	1997	0327	AU	1996	-6743	2		199	960829
	AU	7086	16	•		B2	1999	0805							
		8638				A1	1998	0916	EP	1996	- 9277	15		199	60829
	EP	8638	75			B1	2003	0604							
		R:	ΑT,	BE,	CH,	DE.	DK, ES,	FR,	GB, G	R, IT	, LI,	LU,	NL,	SE, N	IC, PT,
			IE,	ΡI											
	CN	1202	152			A	1998	1216	CN	1996	-1976	74		199	60829
	JP	1150	0447			Т2	1999	0112	JP	1996	-5108	37			60829
	BR	9610	385			Α	1999	0706	BR	1996	-1038	5		199	60829

ANSWER 14 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

188861-25-8 CAPLUS 3-Piperidinol, 4-(1,2-dihydro-5-acenaphthylenyl)-1-(phenylmethyl)-, (3R,4R)-rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

188862-05-7 CAPLUS 4-Piperidinol, 4-(2-naphthalenyl)-1-(phenylmethyl)- (9CI) (CA INDEX

ANSWER 15 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

AB There is described novel (N-phthalimidoalkyl)piperidine compds. I or a pharmaceutically acceptable salt or an N-oxide thereof (a is a single or double bond, provided that when a is a double bond, R2(CH2)n is attached at C-4 and R16 is not present; n is 1-4, provided that when (CH2)n is attached to the 2-position of the piperidine ring then n is 2-4; R1 is (CH2)mR3 or (CH2)pAr, where m is 1-4 and p is 1-4; R2 is N-phthalimido) which exhibit selective orreceptor antagonism and therefore are useful in the treatment of physiol. or drug induced psychosis and dyskinesia in a mammal. Also described are pharmaceutical compns. containing or selective compds. and methods of using these compns. for treating physiol. or drug induced psychosis or dyskinesia in a mammal. Further provided are methods for preparing the compds. of this invention. Kis in the

1-30 nM range were measured in the in vitro σ -receptor binding assay. 1995;227442 CAPLUS 122:132986

DN 122:132986
TI (N-phthalimidoalkyl) piperidines useful as treatments for psychosis
IN Ciganek, Engelbert; Tam, Sang W.; Wright, Ann S.
A Du Point Merck Pharmaceutical Co., USS.
SO U.S., 41 pp. Cont.-in-part of U.S. Ser. No. 602,024, abandoned.
CODEN: USXXAM
DT Patent
LA English
PAN.CNT 3

	PAT	TENT I	NO.			KIN	D	DATE			APP	LIC.	TION	NO.		D	ATE	
							-									-		
PΙ	US	5356	906			Α		1994	1018		US	1992	-876	542		1	9920	430
	ΙL	9614	4			A1		1994	0624		ΙL	1990	-961	44		1	9901	028
	ZA	9008	641			A		1992	0624		ZA	1990	-864	1		1	9901	029
	WO	9322	310			A1		1993	1111		WO	1993	-US3	984		1	9930	428
		W:	AU,	BB,	BG,	BR,	CA,	CZ,	FI,	HU,	JP	, KE	, KR	. KZ	, LK,	MG.	MN.	MW.
									SK,									
		RW:	AT,	BE,	CH,	DE,	DK,	ES,	FR.	GB,	GR	, IE	, IT	. LU	MC.	NL.	PT.	SE,
			BF,	BJ,	CF,	CG,	CI,	CM,	GA,	GN,	ML	, MF	, NE	, SN	TD.	TG		
	ΑIJ	9340	345			A1		1993	1129		AU	1993	-403	45		1	9930	428
	US	5480	892			A		1996	0102		US	1994	-298	268		1	9940	831
PRAI	US	1989	-428	097				1989	1027									
	US	1990	-602	024				1990	1023									
	US	1992	-876	542				1992	0430									
	WO	1993	-US3	984				1993	0428									

ANSWER 16 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

11

The title compds. I [R1 = cycloalkyl- or aryl-substituted alkyl; R2 = (un)substituted phthalimido, etc.; R16 = OH, alkoxy, alkyl. (un)substituted Ph or naphthyl, etc.; n = 0-4; the dotted line is an optional double bondl, which are selective sigma receptor antagonists useful for the treatment of physiol. or drug-induced psychosis and dyskinesis, are prepared and I-containing formulations presented. Thus, 1-(2-phenylethyl)-4-piperidinemethylamine was condensed with fumaric acid, producing fumarate II (m.p. 179-181*). II demonstrated guines pig brain membrane-derived sigma receptor Ki of 00 31-100

nM and dopamine D-2 receptor of Ki >500 nM, vs. 1-30 and 1-30, resp., for

haloperidol. 1994:270118 CAPLUS

DN TI

120:270118
(N-phthalimodoalkyl)piperidine sigma receptor antagonists for the treatment of psychoses Ciganek, Engelbert; Tam, Sang William; Wright, Ann Sorrentino Du Pont Merck Pharmaceutical Co., USA PCT Int. Appl., 129 pp. CODEN: PIXXD2

PA SO

DT Patent

LA FAN.		glish 3																	
	PATENT NO.						KIND DATE				APPLICATION NO.						DATE		
							-									-	-		
PΙ	WO	9322	310			A1		1993	1111		WO 1	993-	US39	84		1	9930	428	
		₩:	AU,	BB,	BG,	BR,	CA,	CZ,	FI,	HU,	JP,	KP,	KR,	KZ,	LK,	MG,	MN,	MW,	
			NO,	NZ,	PL,	RO,	RU,	SD,	SK,	UA,	VN								
		RW:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IE,	IT,	LU,	MC.	NL.	PT.	SE.	
								CM,											
	US	5356				Α		1994					8765				9920	430	
	ΑU	9340	345			A1		1993	1129		AU 1	993-	4034	5		13	9930	428	
PRAI	US	1992	-876	542				1992	0430										
	US	1989	-428	097				1989	1027										

US 1989-428097 19891027
US 1990-602024 19901023
WO 1993-US3984 19930428
MARPAT 120:27018
135903-58-1 135903-59-2
RL: RCT (Reactant): RACT (Reactant or reagent)
(preparation as antipsychotic sigma receptor antagonist)
135903-58-1 CAPLUS

ANSWER 15 OF 22 CAPLUS COPYRIGHT 2004 ACS ON STN MARPAT 122:132996 135903-59-2P

RL: BAC (Biological activity or effector, except adverse); BSU

RI: BAC (Biological activity or effector, pacept measures, (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) ((N-phthalimidoalkyl)piperidines as selective \(\sigma \)-receptor antagonists useful as treatments for psychosis)

RN- 135903-59-2 CAPLUS

CN 1H-facindole-1,3(RH)-dione, hexabydro-2-[[4-(1-naphthalenyl)-1-(2-phenylethyl)-4-piperidinyl]methyl]-, (3aR,7aS)-rel-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

(Continued)

CM 1

CRN 135903-58-1 CMF C32 H36 N2 O2

Relative stereochemistry.

Double bond geometry as shown.

ANSWER 16 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) 1H-Imoindole-1,3(2H)-dione, hexahydro-2-[[4-(1-naphthalenyl)-1-[2-phenylethyl]-4-piperidinyl]methyll-, cia- (9CI) (CA INDEX NAME)

Relative stereochemistry.

135903-59-2 CAPLUS
1H-Isoindole-1,3(2H)-dione, hexahydro-2-[(4-(1-naphthaleny1)-1-(2-phenylethyl)-4-piperidinyl]methyl]-, (3aR,7as)-rel-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CRN 135903-58-1 CMF C32 H36 N2 O2

СМ 2

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

10/722,114

ANSWER 17 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

N(CR2R3)mR1

The present invention consists of title compds. I [R = (un)substituted alkyl, cycloalkyl, aryl, heterocyclyl; RI = (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heterocyclyl; me = 0-3; R2, R3 = H, alkyl, Ph; with the proviso that R * 4 *Me3CCSH4] or an acid-addition salt thereof, a process for the preparation of these piperidine derive, compns. containing such compds. and their use as fungicides. Thus, 4 * (4-chlorophenyl)-1, 3, 5.6 * tetrahydropyridine (10.0 g) was hydrogenated over 5% Pd/C in EtoAc (200 mL) to give 99% 4 * (4-chlorophenyl) piperidine. The latter compound (2.0 g) was treated with PhCH2Br (1.22 mL) and K2CO3 (4.26 g) in THP (100 mL) to give 76% and the provided of the provided over 5% Pd/C in EtoAc (200 mL) to give 76% and 100 pm resp. (11). If showed >80% control of powdery mildew on barley seedlings and wheat eyespot at dosages of 1000 and 100 ppm resp. (11):191696 CAPLUS (11):191

FAN.	CNT	1														
	PA:	PENT	NO.			KIN)	DATE		AP	PLICA	DATE				
PI	EP 494717					A1		1992	0715	EP	1992	19920108				
		R:	AT,	BE,	CH,	DE,	DK.	ES,	FR,	GB, G	R, I1	, LI	LU,	NL,	PT	
	WO	9212	130			A1		1992	0723	WQ	1992	-EP4	0		1:	920108
		W:	BR,	HU,	JP,	KR,	PL,	RU,	US							
	BR	9205	423			A		1994	0315	BR	1992	-542	3		15	9920108
	HU	6511	9			A2		1994	0428	HU	1993	-198	7		1:	9920108
	JP	0650	6441			T2		1994	0721	JP	1992	-501	576		1:	920108
- 1	RU	2097	375			C1		1997	1127	RU	1993	-517	39		15	9920108
	ZA	9200	149			A		1992	0930	ZA	1992	-149			15	920109
	CN	1063	101			A		1992	0729	CN	1992	-100	196		1:	9920110
	US	5489	599			A		1996	0206	បន	1993	-812	98		19	9930628

logical study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation and fungicidal activity of)

ANSWER 17 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

143867-41-8 CAPLUS
Piperidine, 4-(2-naphthaleny1)-1-(2-phenylethy1)- (9CI) (CA INDEX NAME)

ANSWER 17 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) 143867-29-2 CAPLUS
Piperidine, 4-(1-naphthalenyl)-1-(phenylmethyl)- (9CI) (CA INDEX NAME)

Ph-CH₂

143867-30-5 CAPLUS
Piperidine, 1-[(4-chloropheny1)methy1]-4-(1-naphthaleny1)- (9CI) (CA
INDEX NAME)

143867-32-7 CAPLUS
Piperidine, 4-(2-naphthalenyl)-1-(phenylmethyl)- (9CI) (CA INDEX NAME)

$$\mathbb{C}_{N_{CH_2-Ph}}$$

143867-39-4 CAPLUS Piperidine, 1-[(4-chlorophenyl)methyl]-4-(2-naphthalenyl)- (9CI) (CA INDEX NAME)

ANSWER 18 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

The title compds. [I; R = (CH2)nR2; Rl = (CH2)mR3, (CH2)pAr; R2 is selected from 39 general benzo-fused phthalimido and analogous groups; R3 = cycloalkyl; Ar = (un)substituted Ph, naphthyl, pyridyl, pyrimidinyl, (iso)quinolyl; R16 = H, OH, alkovy, acyloxy, alkyl, (un)substituted (hetero)aryl; dashed line = optional bond; when said bond is present R16

(CH2)nR2 and q = 0, otherwise q = 1; m, p = 1-4; n = 0-4] were prepared Thus, 4-aminomethylpyridine was cyclocondensed with cis-1,2-cyclohexanedicarboxylic anhydride and the product N-alkylated with BrCH2CH2Ph to give, after hydrogenation over PtO2, title compound II

inhibited isolation-induced aggressive behavior in mice when administered orally (no dose given).
1991:535930 CAPUS
115:335930 Preparation of (phthalimidoalkyl)piperidines and analogs as psychotropic agents
Ciganek, Engelbert, Tam, Sang William; Wright, Ann Sorrentino du Pont de Nemoure, E. I., and Co., USA
PCT Int. Appl., 113 pp.
CODEN: PIXXD2
Patent
Encolish

DN TI

	PAT	ENT	NO.			KIN		DATE		7	APF	LI	CAT	ION	NO			1	DATE
PI	WQ					A1		1991			10	19	90-	US6	102				199010
								KR,			-		· m						
					CH,												5E		
			4					1994											199010
								1991			λU	19	90-	662	65				199010
								1994											
	ZA	9008	641			A		1992	0624	2	ZΑ	19	90-	864	1				199010
	EΡ	4978	143			A1		1992	0812	Е	EΡ	19	90-	916	143				199010
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	٤,	ΙT,	LI	, L	Ŭ,	NL,	SE	
	JP	0650	4980			T2		1994	0609	3	ΙP	19	90-	515	062				199010
	NO	9201	594			Α		1992	0424	N	10	19	92-	159	4				199204
	PΙ	9201	856			A		1992	0424	6	7.5	19	92-	185	6				99204
PRAT			-428					1989			-								
			-602					1990											
			-US6					1990											
os								1990	1029										
05 1T			115: 59-21		30														

(Biological

study, unclassified): SPN (Synthetic preparation): THU (Therapeutic use):

ANSWER 18 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as psychotropic agent)
135903-59-2 CAPLUS
1H-Isoindole-1,3(2H)-dione, hexahydro-2-[[4-(1-naphthaleny1)-1-(2-phenylethy1)-4-piperidiny1]methy1]-, (3aR,7aS)-re1-, (2E)-2-butenedioate
(1:1) (9CI) (CA INDEX NAME)

CRN 135903-58-1 CMF C32 H36 N2 O2

Relative stereochemistry

CM 2

110-17-8 C4 H4 O4

Double bond geometry as shown.

ANSWER 19 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN AU 8945869 A1 19900628 AU 1989-45869 AU 8945869 AU 633858 US 5153206 A1 B2 19900628 19930211 19891204 19921006 19900726 19900801 NO 9003383 19901001 NO 175257 NO 175257 FI 95465 19940613 19940921 19951031 19960212 FI 1990-3829 19900801 FI 95465 B 19951031 FI 95465 C 19960212 US 5294619 A 19940315 PRAI WO 1988-US4300 19881202 US 1990-566435 19900726 OS CASREACT 113:211852 MARPAT 113:211852 IT 130305-57-69 US 1992-921878 19920729

130305-57-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of neuroleptic agents)
130305-57-6 CAPLUS
4-Piperidinol, 4-(1-naphthalenyl)-1-(phenylmethyl)- (9CI) (CA INDEX

RN CN NAME)

130305-39-4P 130305-41-8P ΙT

Lausus-39-49 Lsgus5-41-89
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as neuroleptic agent)
130305-39-4 CAPUS
2-Thiazolamine, 4-(4-[2-[4-{1-naphthalenyl}-1-piperidinyl]ethyl]phenyl](9CI) (CA INDEX NAME)

ANSWER 19 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

The title compds. [I; A = (un)substituted Ph, tolyl, naphthyl; R = tolyl, 5-oxindolyl, 2-amino-5-thiazolylphenyl, 2-methyl-4-oxo-4H-pyrido[1,2a]pyrimidin-3-yl, (un)substituted Ph, etc.; X = 0, S, bond; n = 2-4) were prepared Thus, the Grignard reagent prepared from 2-BrC6H4OMe

condensed with 1-benzyl-4-piperidone and the product converted in 2 steps to 4-{2-methoxyphenyl}piperidine which was refluxed with 4-{4-{2-chloroethyl}phenyl}-2-aminothiazole in MeCOCH2CHMe2 containing and

NaT and
Na2CO3 to give title compound II which had ICSO of 36.3 nM against
N-propylnorapomorphine binding at dopamine-2 receptors in vitro.
1990.611852 CAPLUS

113:211852
Preparation of N-(eralkyl)arylpiperidines and analogs as neuroleptic agents
Magel, Arthur Adam
Pfizer Inc., USA
Bur. Pat. Appl., 16 pp.
CODEN: EPXXDW
Patent
English
CNT 1 DN TI

PA SO

DT LA

FAN	. CNT	1															
	PA:	TENT :	NO.			KIN)	DATE		- 2	API	PLICAT	'ION	NO.		DATE	
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PΙ	EΡ	3727	76			A2		1990	0613		EΡ	1989-	312	269		198911	27
	EP	3727	76			A3		1991	1023								
	EP	3727	76			B1		1996	0925								
		R:	AT,	BE,	CH,	DE,	EŞ	, FR,	GB,	GR,	17	r, LI,	LU	, NL	, SE		
	WO	9006	303			A1		1990	0614	1	WO	1988-	US4	300		198812	02
		₩:	FĮ,	ΗU,	NO,	RO,	នប	, US									
	HU	5912	7	-		A2		1992	0428	1	HU	1989	232	4		198812	02
	HU	2073	10			В		1993	0329								
	AT	1433	66			Е		1996	1015		TΑ	1989	312	269		198911	.27
	ES	2092	475			T3		1996	1201		ES	1989-	312	269		198911	.27
	ÇA	2004	249			AA		1990	0602		CA	1989	200	1249		198911	30
	CA	2004	249			C		1996	0917								
	JP	0227	5853			A2		1990	1109		JP	1989-	312	235		198911	30
	JP	0701	0850			B4		1995	0208								
	DK	8906	068			A		1990	071B		DK	1989-	606	В		198912	01
	ZA	8909	192			A		1991	0731		ZA	1989-	919:	2		198912	01

ANSWER 19 OF 22 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)

RN 130305-41-8 CAPLUS CN 2H-Indol-2-one, 1,3-dihybro-5-[2-[4-(1-naphthalenyl}-1-piperidinyl]ethyl]-(9CI) (CA INDEX NAME)

ANSWER 20 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
Analogs of the prodine analgesics were prepared and tested for analgesic
activity. A good correlation seems to exist between the energy level of
the highest occupied mol. orbital and biol. activity. The energy level

the highest occupied mol. orbital of the aryl moiety of these analogs may permit a charge transfer interaction between the aryl groups of the analgesic mols. and their receptors with the aryl groups acting as charge

1980:604417 CAPLUS

93:204417

93:204417 Electronic study of receptor binding of analgesic aryl moiety. II: prodine analogs Razzak, Khalid Sabih A.; Hamid, Khawla A. Coll. Pharm., Univ. Baghdad, Baghdad, Iraq Journal of Pharmaceutical Sciences (1980), 69(7), 796-9 CODEN: JPMSAE, ISSN: 0022-3549

Journal

English 75446-52-5P 75446-54-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

logical study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (Preparation and analgesic activity of, energy level of HOMO in

relation to) RN 75446-52-5 CAPLUS

Piperidinium, 1-methyl-4-(1-naphthalenyl)-4-(1-oxopropoxy)-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

75446-54-7 CAPLUS

Piperidinium, 1-methyl-4-(2-naphthalenyl)-4-[(phenylacetyl)oxy]-1-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

ANSWER 21 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN For diagram(s), see printed CA Issue. The synthesis of N-phenethyl-4-heteroaryl-4-piperidinols and related compds. by addition of Li aryls to N-phenethyl-4-piperidones was

ribed.
Treatment of the alco. with Ac20-CSHSN gave either esters or, more commonly, an elimination product. Direct acylation of Li aryl-piperidone complexes gave esters which, in certain cases, were readily converted

ether salts with excess alc. HCl. These results were interpreted in

s of the electronic character of the 4-aryl substituent. The analgesic activities in mice of various compds, were given and the results

ussed in terms of isosteric replacement of Ph in analgesics. Freshly distilled furan (1.7 g.) and PhLi in Et20 (from 0.43 g. Li and 4.75 g. PhBr) refluxed 2 hrs., cooled in an ice bath, treated with 5.4 g. CH2.CH2.CO.CH2.CH2.NCH2.CH2.D(1) (R = Me), the mixture stirred 30 min. at room temperature, added to crushed ice and excess AcOH, stored at 5°, the separated solid washed with Et20, treated with aqueous NH3, extracted Et20, the extract dried, and the Et20 removed gave 4.2 g. crude CH2.CHR.CAr(OH).CH2.CH2.NCH2CM2Ph (II) (R = Me, Ar = 2-furyl) (III), oil, converted into III HCl salt containing 1 mole EtOH crystallization, m. 8°

(decomposition) (sinters at 92°), equivalent weight 365. Crude II (3.1

g.), 4
ml. (EtCO)20 (IV), and 4 ml. C5H5N refluxed 3 hrs., concentrated in

Ac20 in C6H6, the mixture stirred 30 min. at room temperature, added to

Ac20 in C6H6, the mixture bulled 50 mm.

Crushed

ice and excess AcOH, and worked up as above gave 5.3 g. crude

C12.CHR.CAr(OAc).CH2.CH2.NCH2CH2Ph (VII) (R = Me, Ar = 2-furyl) (VIII),
equivalent weight 336, v 1738 cm.-1, converted with excess alc. HCl to

CH2.CHR.CAr(OEt).CH2.CH2.NCH2CH2Ph (IX) (R = Me, Ar = 2-furyl) HCl salt,
m. 181-2° (decomposition) (EtOH-Et2O). I (R = Me) (21.7 g.) treated

with thienyllithium (prepared from 8.4 g. thiophene, 19 g. PhBr, and 1.7 g.

Li as described above) and worked up as above gave 22.5 g. II (R = Me, Ar = 2-thienyl) (X). m. 91° [petr - ether (b. 40-60°)-Me2CO). X treated with IV-CSHSN as above gave V (R = Me, Ar = 2-thienyl) HCl salt (XI) m. 208-10° (decomposition). Direct treatment of the complex from I (R = Me) and thienyllithium with Ac20 and work-up of the mixture as above gave crude VII (R = Me, Ar = 2-thienyl) (XII). converted by realization with alc. HCl into XII HCl salt, m. 213-14° (decomposition) (EtOH-Et20). equivalent weight 384, v 1741 cm. -1 Crude XII with excess alc. gave IX (R = Me, Ar = 2-thienyl) (XIII) HCl salt, m. 220-22° (decomposition)

gave IX (R=Me,Ar=2-thienyl) (XIII) HCl salt, m. 220-2° (decomposition) (RT = Me,Ar=2-thienyl) (XIII) HCl salt, m. 220-2° (decomposition) (EtOH-Et20); XIII picrate m. 149-50°, equivalent weight 556. I (R=Me) (15 g.) treated with 1-naphthyllithium (from 1.4 g. Li and 21 g.) 1-C10H7Br) and worked up as usual gave 21 g. II (R=Me,Ar=1-naphthyl) (XIV); HCl salt m. 266° (EtOH). Direct acylation of I (R=Me) Are 1-naphthyllithium complex with Ac20 as above and treatment of the

ANSWER 20 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

• Br

ANSWER 21 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) crude base with excess HCl gave IX (R = Me, Ar = 1-naphthyl) HCl salt, m. $221-3^{\circ}$ (EtOH). I (R = H) (16.5 g.) with 1-naphthyllithium as before gave 19.5 g. II (R = H, Ar = 1-naphthyl) (XV), m. 173° (C6H6). XV with Ac20-C5HSN as before gave V (R = H, Ar = 1-naphthyl);

malt m. 264° (EtOH), equiv. wt. 390. Direct acylation of I (R = H)-1-naphthyllithium complex with Ac20 and treatment of the base with excess alc. HBr gave VIII (R = H, Ar = 1-naphthyl) HBr salt, m. 224° (EtOH), equiv. wt. 433. I (R = Me) (10.8 g.) added to 2-pyridyllithium, prepd. from LiBu and 7.5 g. 2-bromopyridine by the method of Nunn and Schofield (CA 46, 9563h), and the mixt. worked up as usual gave 9.0 g. II (R = Me, Ar = 2-pyridyl) (XVI) [di+HCl salt m. 240-1° (decompn.) (EtOH-Et2O), equiv. wt. 210], which yielded VII (R = Me, Ar = 2-pyridyl) (XVII) [di+HCl salt m. 203-4° (decompn.) (EtOH) and an EtCO ester di-HCl salt (XVIII), m. 183-4° (EtOH-Et2O), equiv. wt. 218. Refluxing 1 hr. XVI with 3:1 AcOH-HCl gave recovered XVI. I (R = H) (17.5 g.) added to PhCH2MgCl (from 22 g.Cl) PhCH2C1

and 4.3 g. Mg) and the mixt. worked up as usual gave 17.5 g. II (R = H,

= CH2Ph) (XIX) HBr salt, m. 218° (EtOH), equiv. wt. 378, which gave with Ac20-CSH5N VII (R = H, Ar = CH2Ph) (XIXa) HBr salt, m. 241° (EtOH), equiv. wt. 419, and with IV-C5H5N the EtCO ester (XX) [HBr salt

214° (EtOH), equiv. wt. 434]. I (R = Me) (20 g.) treated in the usual manner with PhCH2MgBr gave 23 g. II (R = Me, Ar = CH2Ph) (XXI); HBr salt m. 235° (EtOH). XXI with IV-CSH5N gave V (R = Me, Ar = Ch2Ph) (HBr salt m. 212° (EtOH)], equiv. wt. 375. I (R = H) (8 g.) added to 2-picolyllithium (prepd. by metallation of 7.5 g. 2-picoline with

and the mixt. worked up as usual gave 10 g. crude II (R = H, Ar = 2-picoly)] (XXII) [di-HBr salt m 220.5° (EtOH)], equiv. wt. 229.

Direct acylation of the I (R = H)-2-picoly]lithium complex with Ac20 gave VII (R = H, Ar = 2-picoly) (XXIII) [di-HBr salt m 238° (EtOH)], equiv. wt. 253. I (R = Me) (15 g.) treated with 2-picolylithium as before gave 16 g. II (R = Me, Ar = 2-picoly)] (XXIV) [di-HBr salt m. 250° (EtOH)], equiv. wt. 237. XXIV with Ac20-CSHSN gave, probably, V (R = Me, Ar = 2-picoly)]; di-HBr salt m. 240° (EtOH). The analgesic activities of the compds. reported were as follows [compd., analgesic activity (morphine = 100), and analgesi

1960:118264 CAPLUS
54:118264 CAPLUS
54:12623h-i, 22624a-i, 22625a-b
N-Phenethyl-4-heteroaryl-4-piperidinols and related compounds
Beckett, A. H.; Casy, A. F.; Phillips, P. M.
Chelsea Coll. Sci. & Technol., London
Journal of Medicinal & Pharmaceutical Chemistry (1960), 2, 245-61
CODEN: JMPCAS; ISSN: 0095-9065

CODEN: JMPCAS; ISSN: 0095-9085
JOURNAI
Unavailable
CASREACT 54:118264
102559-08-0, 4-Piperidinol, 4-(1-naphthyl)-1-phenethyl102875-20-7, Piperidine, 4-ethoxy-4-(1-naphthyl)-1-phenethylhydrobromide 113751-76-1, 4-Piperidinol, 3-methyl-4-(1-naphthyl)1-phenethyl-, hydrochloride 113751-77-2, 4-Piperidinol,

10/722,114

ANSWER 21 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN (Continued 3-methyl-4-(1-naphthyl)-1-phenethyl-122803-92-0, 3-Pipecoline, 4-ethoxy-4-(1-naphthyl)-1-phenethyl-, hydrochloride (prepn. of) 102559-08-0 CAPLUS 4-Piperidinol, 4-(1-naphthyl)-1-phenethyl- (GCI) (CA INDEX NAME) (Continued)

Ph-CH2-CH2

102875-20-7 CAPLUS Piperidine, 4-ethoxy-4-(1-naphthyl)-1-phenethyl-, hydrobromide (6CI) (CA INDEX NAME)

Ph-CH2-CH2

• HBr

113751-76-1 CAPLUS 4-Piperidinol, 3-methyl-4-(1-naphthyl)-1-phenethyl-, hydrochloride (6CI) (CA INDEX NAME)

ANSWER 21 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

• HCl

L4 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

Ph-CH2-CH2

113751-77-2 CAPLUS
4-Piperidinol, 3-methyl-4-(1-naphthyl)-1-phenethyl- (6CI) (CA INDEX

122802-92-0 CAPLUS 3-Pipecoline, 4-ethoxy-4-(1-naphthyl)-1-phenethyl-, hydrochloride (6CI) (CA INDEX NAME)

ANSWER 22 OF 22 CAPLUS COPYRIGHT 2004 ACS ON STN
N-Phenethyl-4-piperidone (I) (8.12 g.) and PhLi from 7.85 g. PhBr and 0.7
g. Li gave N-phenethyl-4-hydroxy-4-phenylpiperidine (II), m.
102-3°. Phenethylamine (121 g.) neutralized with concentrated HCl, 118
g. a-methylatyrene, and 200 g. formalin were heated 3 hrs. at
80°, the mixture refluxed 5 hrs., cooled, washed with benzene, the
aqueous layer made alkaline, extracted with benzene, the extract dried,
ent nartially solvent partially removed, hexane added to a faint cloud point and the mixture cooled to give II; HCl salt of 4-Ac derivative m. 214-15.5°; HCl salt of 4-EtCO derivative
m. 201-2°; HCl ealt of 4-PrCO derivative m. 195.5°.
N-Phenethyl-3-methyl-4-piperidone (III) (21 g.) and PhLi from 18.9 g. and 1.66 g. Li gave N-phenethyl-3-methyl-4-hydroxy-4-phenylpiperidine and 1.66 g. Li gave N-phenethyl-3-methyl-4-hydroxy-4-phenylpiperidine

(mixture of isomers), one isomer, m. 106.7°; HCl salt of 4-Ac derivative
m. 214-15°; HCl salt of 4-Etc Oderivative m. 179.5-80.5°
(u-isomer), and 203.5-4.5° (B-isomer). I (16.5 g.) and
a-naphthyllithium (V) from 25 g. a-naphthyl bromide (V) and
1.7 g. Li gave N-phenethyl-4-hydroxy-4-(a-naphthyl) piperidine, m.
173°. III (15 g.) and V from 21 g. VI and 1.4 g. L. gave
N-phenethyl-3-methyl-(4-naphthyl)-4-hydroxy-piperidine+HCl, m.
266°. I (17.5 g.) and PhCH2MgBr from 22 g. PhcH2Cl and 4.3 g. Mg
gave N-phenethyl-4-hydroxy-4-benzylpiperidine-HBr, m. 218°; HBr
salt of 4-Etc Coderivative m. 241°; HBr salt of 4-Etc Oderivative m.
214°. I (30 g.) and BuLi from 28.7 g. BuBr and 3.6 g. Li gave
1990:110647 cAPLUS
19: 54:21137d-g
Amino alcohols and esters
Beckett, Arnold H.
Patent
Unavailable
LONT 1
PATENT NO. KIND DATE APPLICATION NO. DATE

GB 812491 19600413 GB
102559-08-0. 4-Piperidine) A-U-papenthyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-phenethyl-1-p GB 832491 19600413 GB
102559-08-0, 4-Piperidinol, 4-(1-naphthyl)-1-phenethyl113751-76-1, 4-Piperidinol, 3-methyl-4-(1-naphthyl)-1-phenethyl-,
hydrochloride
(preparation of)
102559-08-0 CAPLUS
4-Piperidinol, 4-(1-naphthyl)-1-phenethyl- (6CI) (CA INDEX NAME)

Ph-CH2-CH2

L4 ANSMER 22 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 113751-76-1 CAPLUS
CN 4-Piperidinol, 3-methyl-4-(1-naphthyl)-1-phenethyl-, hydrochloride (6CI)
(CA INDEX NAME)

● HC1

=> file registry COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

121.00 276.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL ENTRY SESSION -15.40 -15.40

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 NOV 2004 HIGHEST RN 776240-21-2 DICTIONARY FILE UPDATES: 7 NOV 2004 HIGHEST RN 776240-21-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> s thienyl/cn

0 THIENYL/CN

=> s thienyl

281840 THIENYL

=> s thiophene

255316 THIOPHENE

=> s thiophene/cn

1 THIOPHENE/CN

=> d

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L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 110-02-1 REGISTRY
CH Thiopheme (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CH CP 34
CN Divinylene sulfide
CN Divinylene sulfide
CN Puran, thio-
CN Huile H50
CN Huile H50
CN Huile H50
CN NSC 405073
CN Thiacyclopentadiene
CN Thioturan
CN Thio
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L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN (Continued)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11033 REFERENCES IN FILE CA (1907 TO DATE)
1667 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
11040 REFERENCES IN FILE CADUX (1907 TO DATE)
4 REFERENCES IN FILE CADLD (PRIOR TO 1967)

=> file registry		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	21.59	298.22
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-15.40

FILE 'REGISTRY' ENTERED AT 14:09:44 ON 08 NOV 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 7 NOV 2004 HIGHEST RN 776240-21-2 DICTIONARY FILE UPDATES: 7 NOV 2004 HIGHEST RN 776240-21-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

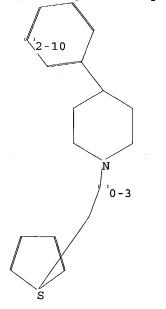
Please note that search-term pricing does apply when conducting SmartSELECT searches.

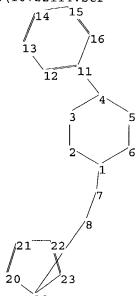
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=>

Uploading C:\Stnexp4 corrupted\QUERIES\10722114.str





chain nodes :

7 8

ring nodes :

 $1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 11 \quad 12 \quad 13 \quad 14 \quad 15 \quad 16 \quad 19 \quad 20 \quad 21 \quad 22 \quad 23$

chain bonds :

1-7 4-11 7-8 8-19

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16 19-20

19-23 20-21 21-22 22-23

exact/norm bonds :

1-2 1-6 1-7 2-3 3-4 4-5 5-6 8-19 19-20 19-23 20-21 21-22 22-23

exact bonds : 4-11 7-8

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 19:Atom 20:Atom 21:Atom 22:CLASS 23:CLASS

L9 STRUCTURE UPLOADED

=> d 19

L9 HAS NO ANSWERS

L9

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 19

SAMPLE SEARCH INITIATED 14:10:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 75 TO ITERATE

100.0% PROCESSED 75 ITERATIONS

STR

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

981 TO 2019

PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L9

=> s 19 ful

FULL SEARCH INITIATED 14:10:09 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1596 TO ITERATE

100.0% PROCESSED 1596 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L11 0 SEA SSS FUL L9

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chain nodes : 7 8 ring nodes : 1 2 3 4 5 6 11 12 13 14 15 16 19 20 21 22 chain bonds : 1-7 4-11 7-8 8-19 ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16 19-20 19-23 20-21 21-22 22-23 exact/norm bonds : 1-2 1-6 1-7 2-3 3-4 4-5 5-6 8-19 19-20 19-23 20-21 21-22 22-23 exact bonds : 4-11 7-8 normalized bonds : 11-12 11-16 12-13 13-14 14-15 15-16

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 19:Atom 20:Atom 21:Atom 22:CLASS 23:CLASS

L12 STRUCTURE UPLOADED

=> d l12 L12 HAS NO ANSWERS L12 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 112

SAMPLE SEARCH INITIATED 14:11:09 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 59 TO ITERATE

100.0% PROCESSED 59

59 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

720 TO 1640

PROJECTED ANSWERS:

0 TO (

L13

0 SEA SSS SAM L12

=> s 112 ful

FULL SEARCH INITIATED 14:11:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1219 TO ITERATE

100.0% PROCESSED

1219 ITERATIONS

0 ANSWERS

SESSION

SEARCH TIME: 00.00.01

L14

0 SEA SSS FUL L12

=> file registry

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY

FULL ESTIMATED COST

311.68 609.90

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE

0.00 -15.40

FILE 'REGISTRY' ENTERED AT 14:12:24 ON 08 NOV 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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STRUCTURE FILE UPDATES:

7 NOV 2004 HIGHEST RN 776240-21-2

DICTIONARY FILE UPDATES:

7 NOV 2004 HIGHEST RN 776240-21-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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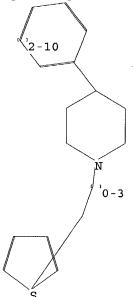
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=>

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chain nodes :

7 8

ring nodes :

1 2 3 4 5 6 11 12 13 14 15 16 19 20 21 22 23

chain bonds :

1-7 4-11 7-8 8-19

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16 19-20

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Match level :

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L15 STRUCTURE UPLOADED

=> d l15 L15 HAS NO ANSWERS L15 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT * Structure attributes must be viewed using STN Express query preparation.

=> s 115 ful FULL SEARCH INITIATED 14:12:46 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L16 0 SEA SSS FUL L15

=> logoff y COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

155.42 765.32 SINCE FILE TOTAL

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CA SUBSCRIBER PRICE

ENTRY SESSION 0.00 -15.40

STN INTERNATIONAL LOGOFF AT 14:13:04 ON 08 NOV 2004